Notice for Users in the USA

FCC Statement

WARNING - FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the distance between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

A shielded I/F cable and included cables with ferrite cores are required to insure compliance with FCC regulation for Class B computing equipment.

* As an ENERGY STAR@ Partner, **SHARP** has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Declaration of Conformity

SHARP PERSONAL COMPUTER, PC-A200 Series
This **device complies with part 15 of the** FCC **rules. Operation is subject to the following conditions:(1)this device may not cause harmful interference. and (2) this device must accept any interference received. including interference that may cause undesired operation.**

Responsible Party: SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, New Jersey 07430-2135
TEL: 1-800-BE-SHARP

About the Modem

This equipment complies with Part 68 of FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested. this information must be provided to the telephone company.

The modem jack of this equipment complies with Sub-part F of Part 68 of FCC rules.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs contact the telephone company to determine the maximum REN for the calling areas.

If the terminal equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact Sharp Electronics Corp. for repair and (or) warranty information (Refer to the end of this section). If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

The equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.) To program this information, refer to the manual of the communication software.

CAUTION: DISCONNECT TELEPHONE LINES BEFORE ACCESSING THE MODEM CARD.

Copyright

It is the intent of Sharp that this product be used in full compliance with the copyright laws of the United States and that prior permission be obtained from copyright owners whenever necessary.

Product Information and Customer Assistance

For Product Information and Customer Assistance:

Call: 1-800-BE-SHARP (237-4277)
Sharp Electronics Corp.
Sharp Plaza, **Mahwah,** NJ 07430-2 135
Home Page: **http://www.sharp-usa.com**
E-mail address: **pcsupport@sharpsec.com**
CompuServe: Go Sharp

Notice for Users in Canada

About Modem

The Industry Canada label identifies certified equipment.
This certification means that the equipment meet certain telecommunications network protective, operational and safety requirements. The department does not guarantee the equipment will operate to the user's satisfaction.
Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company.
The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this **equipment,** or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

"The **Ringer Eqhvalence Number** (REN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device. To prevent overloading, the termination on a loop may consist of any combination of devices subject only to the requirement that the total of Ringer Equivalence Number of all the devices does not exceed 5."

CAUTION:
DISCONNECT TELEPHONE LINES BEFORE ACCESSING THE MODEM CARD.

ATTENTION:
DEBRANCHER LES LIGNES TELEPHONIQUES AVANT D'ENLEVER CE COUVRICLE

Product Information and Customer Assistance

For Product Information and Customer Assistance:

Call: l-905-890-2100 (Toronto Area)
1-800-56-SHARP (Outside Toronto)

Sharp Electronics of Canada Ltd.
335 Britannia Road East,
Mississauga, Ontario, L4Z 1 W9
Canada

Notice for Users in Australia

Service Inquiries

Please contact your dealer for service if required or contact Sharp Corporation of Australia on 1-800-807820 (free call) for referral to your nearest Sharp authorised Service Centre. Details can be found on the warranty card 'inserted with the documentation.

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Notice for Users in the UK

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

BLUE: **Neutral**

BROWN: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured **BLUE** must he connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured BROWN must he connected to the terminal which is marked with the letter L or coloured red.

This apparatus must be protected by a 3A fuse in the mains plug or distribution board.

This apparatus is approved under approval number NS/G1234/J/ 100003 for indirect connection to the public telecommunication system in the United Kingdom.

Copyright

Recording and playback of any material may require consent, which SHARP is unable to give. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958. the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

Notice for Users in Europe

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Anderung 93/68/EWG.

Ce materiel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE moditides par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Η εγκαταστασηαυτηανταποκρινεται στιζαπαιτησειζτων οδηγιων τηζ Ευρωπαϊκηζ Ενωσηζ 89/336/ΕΟΚ κατ 73/23/ΕΟΚ, όπωζ οι κανονισμοι αυτοι συμπληρωθηκαν από την οδηγια 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som komplette ras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

CAUTION:

TOPREVENTELECTRICALSHOCK, DISCONNECTTHEACCORDAND THE BATTERY BEFORE SERVICING.

CAUTION:

FOR A COMPLETE ELECTRICAL DISCONNECTION, PULL OUT THE MAIN PLUGANDTHEBATTERY.

VORSICHT:

UM DIE STROMZUFUHR VOLLSTÄNDIG ZU UNTERBRECHEN, DEN NETZSTECKER HERAUSZIEHEN UND DIE BATTERIE ÈNTFERNEN.

ATTENTION:

POUR UN ARRET TOTAL DU SYSTEME, DECONNECTEZ LA PRISE DE COURANTSECTEURETLABATTERIE.

VARNING:

FÖR TOTAL ELEKTRISK URKOPPLING, KOPPLA UR KONTAKTEN OCH TA UR BATTERIET.

PRECAUCION:

PARAUNACOMPLETADESCONEXIONELECTRICADESENCHUFELA CLAVIJADELAREDYLABATERIA.

Safety Precautions

General

- Follow all cautions and instructions which may be marked on the computer.
- Except as described elsewhere in this manual, refer all servicing to qualified personnel. Immediately shut off the computer and refer for servicing under the following conditions:
  - when the power cord or plug is damaged or frayed
  - if liquid has been spilled on the computer
  - if the computer has been dropped or the cabinet has been damaged

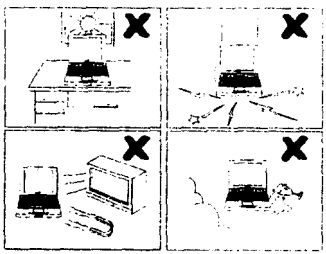
Location

- Do not expose the computer to direct sunlight.
- Try to avoid dusty environments.
- Keep the computer away from any magnetic devices and TVs.
- Keep the computer away from excessive humidity or fluids such as rain. snow. water spray, juice, coffee, steam, etc.
- Do not move the computer from a cold place to a warm place. A temperature difference of more than 10°C (18°F) will cause condensation inside the unit, which may damage the data.
- Do not block or cover slots or openings on the cabinet to protect the computer from over heating.
- Care should be exercised when using on heat sensitive surfaces or your lap as the base of this computer will get hot.
- Do not smoke near your computer.

Usage

- Never push any objects of any kind into cabinet openings. They may touch dangerous voltage points or short parts that could result in fire or electrical shock.
- Turn off the computer before installing or removing a peripheral device(except when connecting USB devices and PC cards).
- Check the AC power cord and power connectors periodically for **damage.** Replace the power cord immediately if damage is found.

- Never subject your computer to sudden shocks or extreme vibration.
- Do not drop the computer nor hit it with other equipment.
- Do not scratch the surface of the LCD screen.
- Turn off the computer and disconnect the AC power cord before cleaning.



Battery Pack Precautions

Handling

- Never put the battery pack in a fire, as it could explode and cause injury.
- Do not attempt to open or alter the battery pack.
- Do not place the battery where it might get hotter than 60°C (140°F).
- Do not allow metal objects such as jewelry to short across the battery terminals. as it could heat up and explode.
- Do not allow liquids to come in contact with the battery pack.
- Avoid dropping the pack or other violent shock.
- Do not solder anything to the battery terminals.

Charging

- Charge the battery pack only with the AC adapter included with your computer or an optional one.

Discharging

- Do not use the battery pack for any purpose other than powering the computer.

Storage

- Store the battery pack in a cool and dry place. Never allow the temperature to exceed 60°C (140°F) during storage.

- Recharge the battery pack after storage, before use.

Modem Precautions

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Avoid using the telephone during a lightning storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.

About This Manual

Notice

Information in this manual is subject to change without notice and does not represent a commitment on the part of SHARP Corporation.

SHARP Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the furnishing. performance, or use of this material.

SHARP strongly recommends that separate permanent written records be kept of all important data. Data may be lost or altered in virtually any electronic memory product under certain circumstances. Therefore, SHARP assumes no responsibility for data lost or otherwise rendered unusable whether as a result of improper use, repairs, defects. battery replacement, use after the specified battery life has expired, or any other causes.

SHARP assumes no responsibility directly or indirectly, **for financial losses or** claims from third persons resulting from the use of this product and any of its functions, such as stolen credit card numbers, the loss of or alteration of stored data, etc.

Edition

1st Edition. April 1999.

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Recording Important Information

For future reference, please record the following information in the spaces provided below.

Model Number:	
Serial Number:	
Date of purchase:	
Dealer's Name:	
Place of purchase:	
Password:	

The serial number is printed on a sticker located on the bottom of the computer.

Manual Conventions

This manual uses a set of style conventions described below.

Notes and Cautions are italicized with icons:

A note icon informs you of a special technique or information that may help you perform a task or better understand a process.

A caution icon alerts you to something that may cause problems or damage to hardware, software or data.

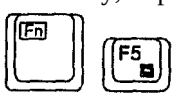
Key Labels on the Keyboard, when referred to in the instructions. are shown in boldface:

Press **Enter** to continue.

When more than one key are pressed simultaneously. the key labels are separated by a plus (+) sign:

Restart your computer by pressing **Ctrl+Alt+Delete**.

When necessary, important key combinations are shown in graphics:



Sample Entries are shown in upper cases of different typeface. in the following case, press the Enter key after you type the command:

C:\>DIR A: **Enter**

Words/Texts on Screen, such as window titles or possible parameters, are italicized:

Double-click this icon to display the *Power Properties* window.

Set the item to *Enabled.*

Screens reproduced in this manual may differ slightly from the screens you see on your computer.

Section Titles in other parts of this manual are italicized:

Refer to *Infrared Communication* section in Chapter 5.

Table of Contents

Notice for Users in the USA.. i
Notice for Users in Canada iv
Notice for Users in Australia vi
Notice for Users in the UK.. vii
Notice for Users in Europe viii
Safety Precautions ..... .
About This Manual xiii
Recording Important Information.. xiv
Manual Conventions xv
Table of Contents xvi
Overview of Computer.. xviii

Quick Setup

Turning Power On ..... I-I
Setting up Windows 98.. 1-3
Shutting Down the System.. 1-4

Basic Operations

Choosing Power Source 2-1
Resetting the System.. 2-3
Using Glide Pad.. 2-4
Using Keyboard 2-6
Using External Floppy Disk Drive Unit.. 2-7

Battery and Power Management

Standard Battery Pack.. 3-1
Optional External Battery Pack.. 3-5
Power Management 3-8

Peripherals

Using Peripherals.. 4-1
PC Card.. 4-3
Keyboard / Mouse.. 4-6
Display 4-7
Audio System.. 4-9

USB Device 4-9
Printer 4-10
RS-232C Device 4-10

Communication Functions

Infrared Communication. 5-1
Built-in Modem 5-3
LAN Unit 5-5

Security Features

Passwords.. 6-1
Preventing Infection of Computer Viruses 6-4
Security Slot.. 6-4

Setup Utility

Running the Setup Utility 7-1
Main menu.. 7-3
Advanced menu 7-3
Security menu 7-5
Power menu 7-6
Exit menu 7-7

Appendixes

Maintenance and Care A-1
Specifications A-3

Troubleshooting

Troubleshooting T-1

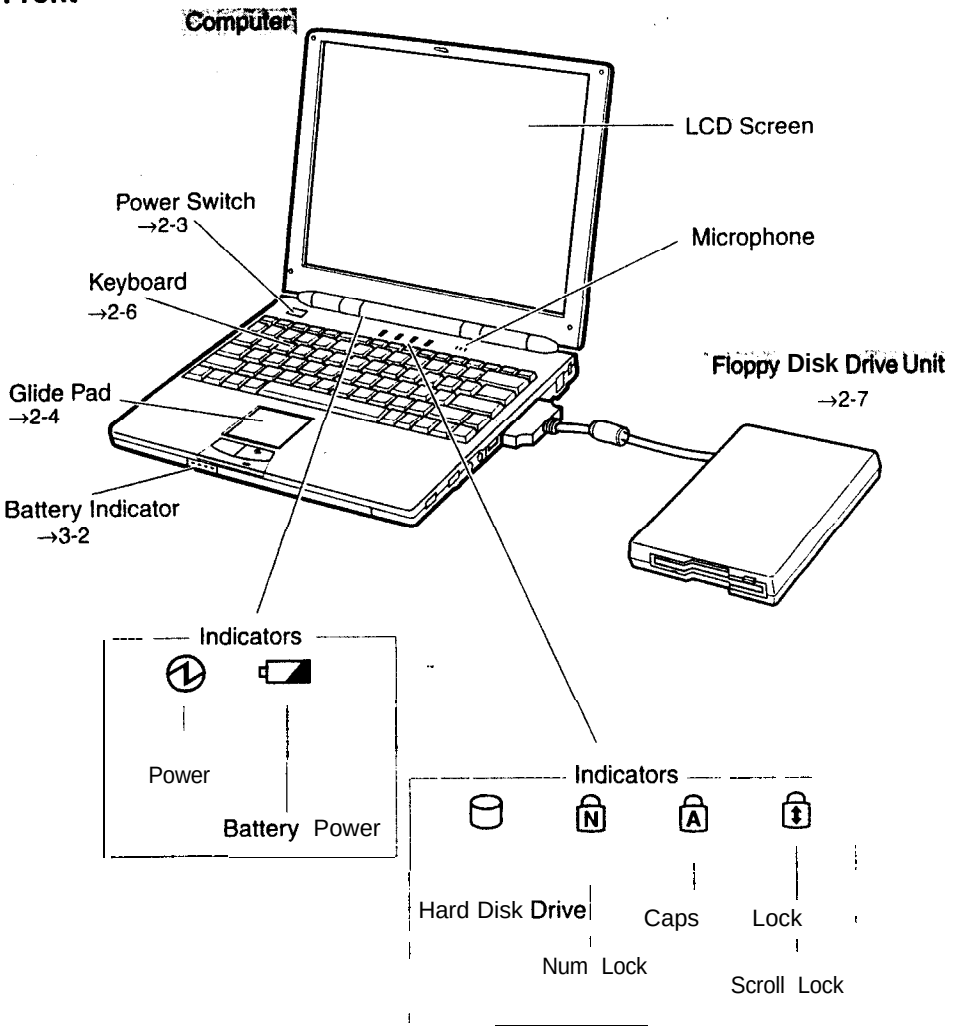
Index

Index Index-1

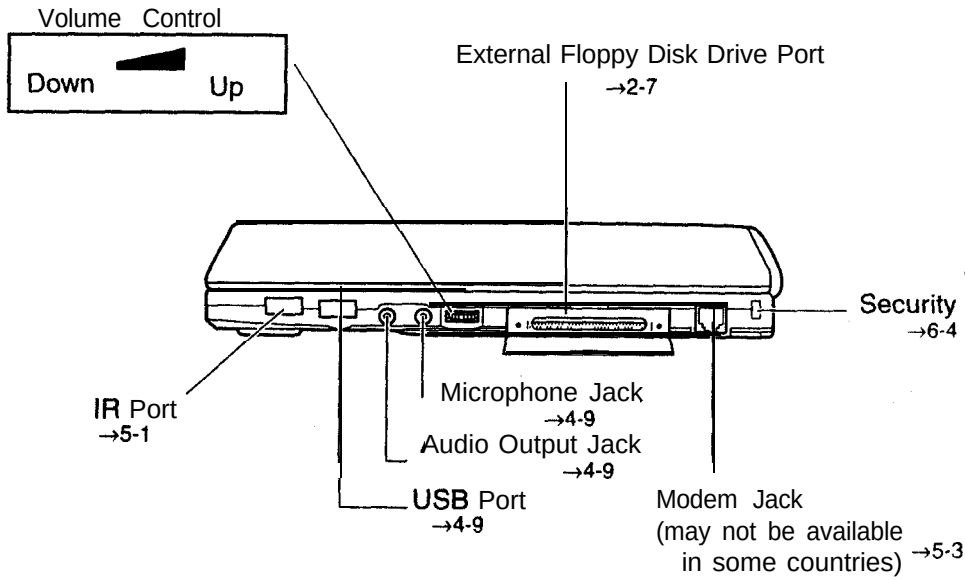
Overview of Computer

Each number after an arrow indicates the page referring to the part. Actual appearance of your computer may be slightly different depending on the model

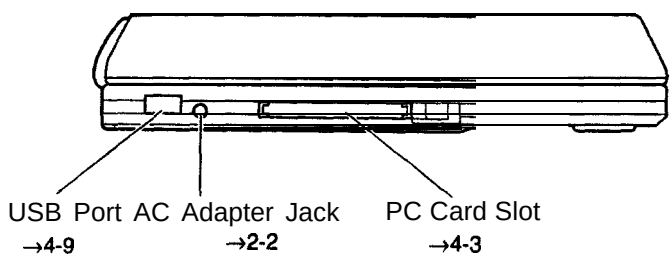
Front



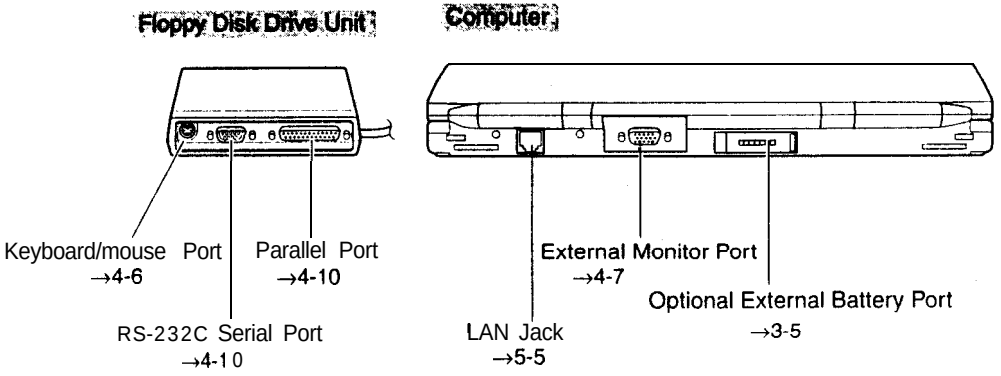
Right


Volume Control
Down
Up
External Floppy Disk Drive Port
→2-7
Security S
→6-4
IR Port
→5-1
Microphone Jack
→4-9
Audio Output Jack
→4-9
USB Port
→4-9
Modem Jack
(may not be available
in some countries)
→5-3

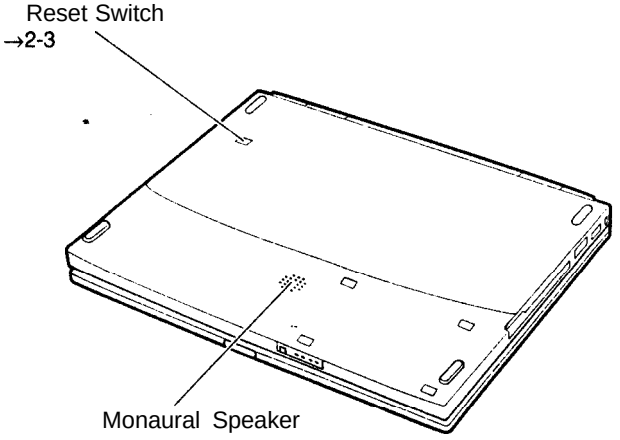
Left


USB Port
→4-9
AC Adapter Jack
→2-2
PC Card Slot
→4-3

Rear


Floppy Disk Drive Unit
Computer
Keyboard/mouse Port
→4-6
Parallel Port
→4-10
RS-232C Serial Port
→4-10
LAN Jack
→5-5
External Monitor Port
→4-7
Optional External Battery Port
→3-5

Bottom


Reset Switch
→2-3
Monaural Speaker

CHAPTER 1

Quick Setup

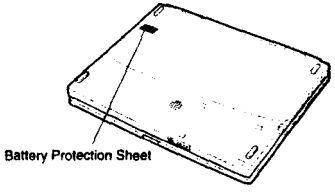
Your computer is designed and pre-configured for easy setup and use. This chapter describes the steps to get your computer up and running as quickly as possible. Read this chapter first.

Turning Power On

Your computer is powered with either the rechargeable battery or AC power. See the next chapter for more information on power sources. Before using the computer for the first time:

1. Remove the battery protection sheet on the bottom of the computer.

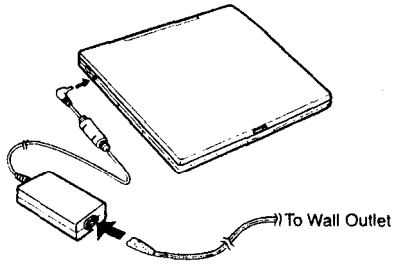
If you *do not remove the sheet, you cannot turn on* the *computer*.



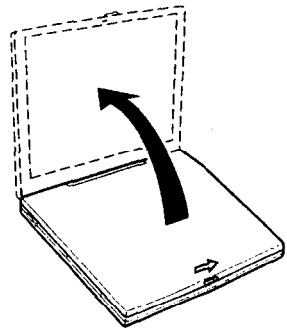
2. Plug the AC adapter cable into the computer's AC adapter jack.
3. Plug the AC power cord into the AC adapter.

- *Always use the AC adapter included with the computer or the optional one. Using other AC adapters may damage the computer.*
- *Always hold the AC power cord by its plug when removing it from the wall outlet. Never pull on the cord.*
- *When using the computerfor the first time, be sure to connect it to AC power. If using the battery instead, you may nor be able to complete the Windows 98 setup if the batten does not have enough power.*

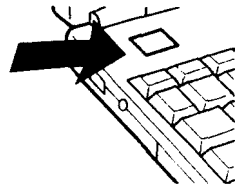
4. Plug the AC power cord into a wall outlet.



5. Slide the display lock latch until the screen covet releases. and raise the covet.
6. Tilt the cover to a comfortable viewing position.



7. Press the power switch.



When you turn on the computer. the power indicator (⏻) turns green. the computer goes through a self test to detect any problems. and Windows 98 starts. When using the computer for the first time, a dialog box called *rhe Windows 98 Setup Wizard* appears to guide you through the Windows 98 setup. See the next page.

Setting up Windows 98

The first steps in the setup process are as follows:

- Gathering information
- Configuring your computer
- Restarting your computer

To set up Windows 98, follow the instructions on the screen. See also the Windows 98 manual. It takes approximately 5-10 minutes to complete the entire setup process.

Do not turn off the computer until completing Windows 98 setup. If you turn off, you cannot set up Windows 98 later.

Properties Dialog Box in Windows

In the instructions in this manual, you will often see the expression "XXX Properties dialog box." A dialog box is a window containing text boxes. check boxes, buttons, etc., with which you can send commands to Windows 98 or other application programs. To open the properties dialog boxes, click the *Start* button. select *Settings - Control Panel* and double-click the XXX icon. Among the dialog boxes you often use are:

- Display
- Modems
- Mouse
- PC Card
- Power Management
- System

Shutting Down the System

To turn off the computer:

1. From the *Start* menu, select *Shut Down.*
2. Select *Shut Down* and click *OK.* The computer turns off automatically.

If you have not saved a file, a dialog box will appear asking whether you want to save it.

- *Do not turn off the computer by pressing the power switch. Data may be lost or damaged.*
- *Do not turn off or reset the computer while the hard disk indicator, or the indicator on the external floppy disk drive unit, or optional external CD-ROM drive are lit. Doing so may damage or even wipe out the data.*
- *To protect the screen. always close the screen cover while the computer is off.*
- *Before-turning it back on, wait at least 5 seconds after turning off the computer. Turning the power off and on in rapid succession can damage the computer's electrical circuitry.*

CHAPTER 2

Basic Operations

This chapter describes the basic operations of your computer.

Choosing Power Source

You can use the computer with one of the following power sources:

- AC power from a wall outlet
  Use AC power whenever possible; rely on the battery only when AC power is not available.
- Rechargeable battery
  There is an internal standard battery in the computer. You can use an optional external battery pack adding to the standard battery. See Chapter 3 for battery information.

About the Power Indicators

The following indicators show the power status of your computer.

Indicator	Light	Meaning
Battery Power	On (green)	Fully charged
	On (orange)	Being charged
	Blinking (orange)	In abnormal state
	On and blinking (red)	Almost completely discharged. The warning beep sounds.
Power	On (green)	Operating
	Blinking (green)	Suspended to RAM
	Off	Suspended to Disk or powered off

For more information on Suspend to RAM and Suspend to Disk. see Chapter 3.

Using the AC Adapter

When connected to a wall outlet, the AC adapter provides power for operation and charges the battery. The AC input voltage can range from 100 to 240 volts so that you can use the computer with the appropriate plug adapter.

The AC power cord included with the computer is appropriate for the voltage used in the area in which you purchased your computer. If you attempt to connect the computer to a wall outlet other than in this area, check the voltage of the outlet and use an AC power cord appropriate for the outlet. Consult local service staff if you are unsure.

Resetting the System

You may need to reset the system after adding hardware or software so that your computer will recognize the newly installed devices or software. When the message appears after the installation, click *OK, Yes,* etc. to restart Windows 98.
You can also restart Windows 98 from the *Start* menu. Select Shut *down*; then. *Restart.*

Warm Boot

If the system is locked up because of a software problem, you can reset or reboot the system by pressing the **Ctrl+Alt+Del** keys simultaneously. Press the **Ctrl+Alt+Del** keys again to restart the computer.

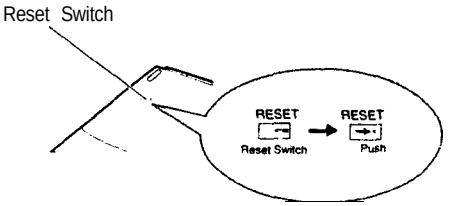
Resefting may cause data loss. Use *the software reset only if* the *normal Windows 98 Shut Down does not work because of software malfunction. Although resetting will not damage the system, you may lose the data you are processing.*

Power Switch

You can turn off the computer with the power switch if you encounter hardware or software problems which lock up the system. In this case, press the switch for more than six seconds.

Reset Switch

If you cannot turn off the computer by pressing the power switch, you can use the reset switch on the bottom of your computer. To reset the system, insert a narrow object into the small hole to slide the switch as shown.



Do not use metallic materials to slide the reset switch. It may cause malfunction.

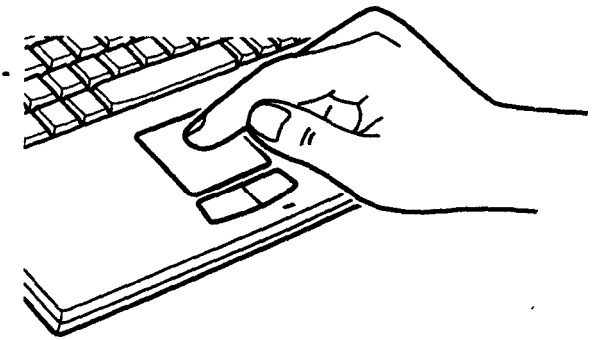
Using The Glide Pad

Your computer is equipped with an integrated pointing device called a glide pad. Using the glide pad, you can move the pointer, select an item from a menu. and perform other tasks in the same way you would with a mouse.

- ***Do not hit or scratch the surface of the glide pad with pointed objects (such as a ballpoint pen).***
- ***Do not operate the glide pad with a moistfinger. This may cause the glide pad to operate incorrectly.***
- ***You cannot use the glide pad when a mouse is connected.***

Using the Glide Pad

Take a moment to become familiar with how the glide pad works.



Place Your Fingertip

Place your left or right hand next to the glide pad, resting your wrist naturally in a relaxed manner. Place your thumb or finger on the glide pad.

Move Your Fingertip

The rectangular pad of the glide pad acts like a miniature duplicate of the display. As you slide your fingertip across the pad. the pointer on the screen moves in the same direction across the screen. The glide pad is very sensitive. so you do not have

to exert a lot of pressure on the pad. The glide pad will respond to a light touch from your fingertip.

Click, Double-click, and Right-click

To click or double-click, you can use the left button just like that of a mouse. Instead of clicking by pressing the left button, you can just tap gently anywhere on the rectangular pad. For right-clicking, you can use the right button.

Drag and Drop

You can move icons or windows by using "drag and drop" below:

1. Position the pointer over the object.
2. Press the left button; do not release it.
3. Holding down the button, move the pointer. The object moves together with the pointer.
4. Release the button when the object reaches its destination.

Scroll

You can scroll through information in a list or in a document by using the glide pad. Place your finger on the right part of the glide pad and move it back and forth. This procedure works only vertically, and in the limited applications.

Changing the Configuration

In the Mouse ***Properties*** dialog box, you can change the configuration of the glide pad, such as swapping left and right buttons, changing the pointer size, etc.

- ***If you swap the left and right buttons, "tapping" on the glide pad as an alternative rnethod of pressing the left button will no longer function.***
- ***If you prefer to use a mouse and turn off the glide pad. you can disable the glide pad in the Setup Utility. See also Chapter 4.***

Using The Keyboard

Your computer. equipped with the Windows Enhanced Keyboard, provides all the functionality of a full-sized desktop keyboard.

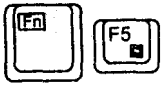
Windows Logo Keys

Opens the Windows Start menu.

Opens an application-specific short-cut menu equivalent to right-clicking.

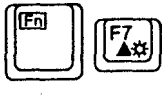
System Function Keys

When pressed together with the **Fn** key, function keys set specific system parameters. This combination is sometimes referred to as "hot keys".



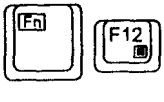
Switches the display output between the LCD screen and external monitor (if connected). See the *Display* section in Chapter 4 for details.

Decreases the LCD screen brightness.



Increases the LCD screen brightness.

Turns the screen backlight on and off.



Puts the computer in suspend mode (to RAM or to Disk. according to the setup selection). See also Chapter 3.

Using External Floppy Disk Drive Unit

You can use double-density (2DD) 720KB or high-density (2HD)1.44MB floppy disks with the external floppy disk drive unit.

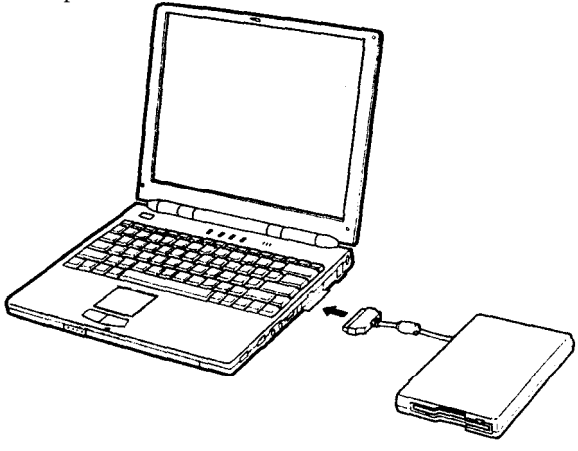
The keyboard/mouse port, RS-232C serial port and parallel port are available on the rear side of the floppy disk drive unit. You can connect peripherals to the floppy disk drive unit. For more information about peripherals, refer to Chapter 4.

Connecting External Floppy Disk Drive Unit

Turn off the computer before connecting the external floppy disk drive unit; otherwise the floppy disk drive unit may not be recognized.

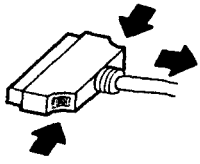
- ***Do not place the floppy disk drive unit on its side or upside down.***
- ***Do not press on the floppy disk drive unit. It may damage the drive or cause malfunction.***
- ***Do not place the AC adapter on the floppy disk drive. It may cause the drive to malfunction.***

1. Turn off the computer.
2. Open the cover of the external floppy disk drive port on the right side of the computer.
3. Connect the connector of the floppy disk drive unit to the floppy disk drive port.



Removing External Floppy Disk Drive Unit

1. Remove the floppy disk from the floppy disk drive.
2. Turn off the computer.
3. Disconnect the floppy disk drive unit by simultaneously pressing the buttons on each side of the connector and pulling it out.
4. Close the cover of the floppy disk drive port.



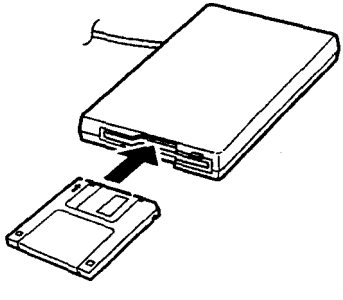
Handling Floppy Disks

- Do not open the shutter and touch the disk inside; otherwise, you will not be able to read or write data to the disk.
- Do not place floppy disks near magnets or heat source, in direct sunlight or in a dusty place, etc.
- Never subject a disk to sudden shocks or extreme vibration. Do not drop. bend, or place heavy objects on a disk.
- Do not spill liquid onto a disk.

Inserting and Removing a Floppy Disk

Inserting

Hold the Floppy disk with the arrow facing up and towards the drive. Slide the disk into the drive until it locks into place.

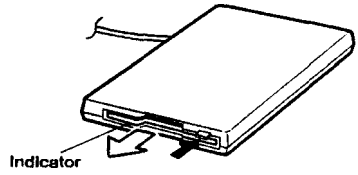


- ***Always insert a floppy disk straight into the floppy disk drive.***
- ***When insetting the disk, make sure it is not upside dawn.***
- ***Do not use excessive force when inserting the floppy disk. If you have difficulty inserting or removing disks, seek the assistance of an authorized service technician.***

Removing

Before removing the floppy disk, make sure the indicator of the floppy disk drive unit is not lit.

Press the eject button firmly. The disk will pop out slightly. Remove it and store it properly.



Formatting a Floppy Disk

1. Make sure the floppy disk is not write-protected, and insert it into the floppy disk drive.
2. Double-click ***My Computer*** on the desktop.
3. Click 3 ½ ***Floppy [A:].*** From the ***File*** menu, select ***Fonnat.***
4. From the capacity drop-down list, select I .44MB or 720KB.
5. Click ***Start*** to start formatting.

When you format a floppy disk, all data previously stored on the disk is lost.

Backing Up Data

We recommend that you regularly backup the data on your hard disk drive. Windows 98 has a backup function you can use to back up your data. See Windows 98 Help for details.

CHAPTER 3

Battery and Power Management

This chapter explains how to manage the computer's power effectively and use the standard battery or an optional battery pack.

Standard Batterv Pack

When not connected to an external power source, your computer operates with the rechargeable internal standard battery pack. The duration of the battery life may be longer if the computer's Power Management is active. See the next section for power management.

To keep the battery life long:

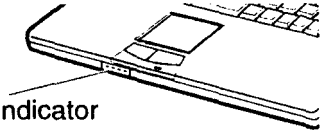
- Initialize the battery pack if the actual remaining power in your battery is less than what the battery indicator lights suggest as per the procedure on page 3-3.
- Turn off your computer when you are not using it.

- ***The duration a battery*** *charge will last will depend on the computer usage. Applications which heavily use the peripherals, like the* ***external floppy*** *disk drive unit or the optional external CD-ROM* ***drive, will experience shorter power duration.***
- *When the battery is not charged, your computer may not operate properly. Connect the* ***AC power*** *to charge the battery.*
- ***If you see*** *an error message during booting, press F2 to open the Setup Utility. Following the instructions in Chapter 7. adjust the Setup Utility and restart the system.*
- *When using the computer for several hours with battery packs. enable power management and set the suspend-to-disk mode. Refer to the Power Management section in this chapter and the Power section in Chapter 7.*

Checking the Battery Level

You can check the battery level in the *Power Management* properties dialog box in the Control Panel or double-clicking the battery or AC plug icon on the taskbar.

You can also check with the battery indicator on the front side of the computer.



Press the button on the right of the battery indicator to show the battery power remaining. Refer to the table below.

Battery Indicator Status	Capacity Remaining
(All on)	76% - 100%
(Threeon)	51% - 75%
(Two on)	26% - 50%
(One on)	1% - 25%
(One blinking)	Nearly O%(Empty)
(All off)	O%(Empty)

This battery indicator turns on automatically while the battery is being charged (when connected to AC power). When the battery is fully charged, the battery indicator turns off.

*The battery power remaining is an **approximate figure.** The remaining operating time expected may be **different** from the actual remaining time, depending on the use of the computer. If the actual remaining power in **your** battery is less than what **the** batter! indicator lights suggest, **you** should initialize the **battery** pack as per rhe procedure on page 3-3.*

Low **Battery Indication**

When the battery power becomes significantly low. the battery power indicator (Q) turns red and the warning beep sounds. Save your data and turn off the computer,

or connect the computer to a wall outlet immediately. If you set *Critical Batten Suspend* to *Enabled* in the *Power* menu of the Setup Utility, the computer will be suspended to disk in case of significantly low battery power. When your computer suspends, do not turn on the computer before connecting to a wall outlet or connecting a fully charged optional external battery pack (see page 3-5).

In Windows 98, you can set the alarm to inform you of the remaining battery level. In *Power Management properties* dialog box, select *Alarms* tab and set *Low battery alarm* and *Critical battery alarm.*

The remaining operating time depends on the power you are consuming. If you are using the audio system, PC card slot, hard disk drive or external floppy disk drive unit, your computer may consume more battery life.

See also the section on power management in this chapter.

Charging the Battery Pack

1. Connect the AC adapter to the computer. While the battery is being charged, the battery power indicator is orange and the battery indicator turns on.
2. When the battery is fully charged, the battery power indicator turns green and the battery indicator turns off. Charging time may vary according to the status of the computer.

When the battery is hot (for example, after long use), it may take longer to fully charge the battery.

Initializing the Battery Pack

You need to initialize the battery pack when the actual remaining power in your battery is less than what the battery indicator lights suggest.

1. Connect the computer to AC power and wait until the battery is fully charged. The battery power indicator turns green and the battery indicator turns off. It will take about 2 hours and 30 minutes if the battery is completed discharged.
2. Turn on the computer.
3. When the message *Press <F2> to enter Setup Utility* appears, press F2 to open the Setup Utility.

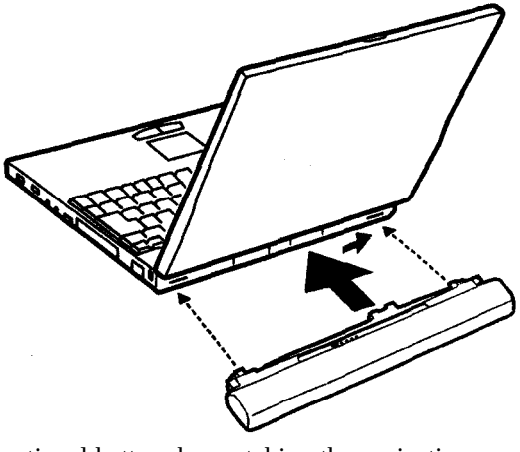
Optional External Battery Pack

You can use an optional external battery pack to power your computer for longer periods of time.

Use only the appropriate optional external battery pack (CE-BL03), and attach it correctly.

Connecting External Battery Pack

1. Slide the cover of the external battery port to locate the port.



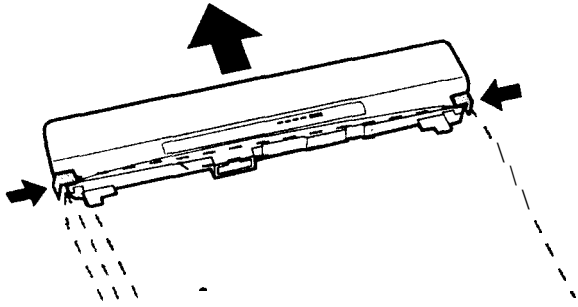
2. Connect the optional battery by matching the projections on either of the battery side to the notched parts of the computer. Make sure that the battery connector lines up with the external battery port of the computer. If you hear the clicking sound, the external battery pack is correctly connected.

- *While the external battery pack is connected, do not carry the computer by holding the battery pack only. Firmly hold both the computer and the external battery pack.*
- *You can connect neither an external monitor nor a LAN cable when the external battery pack is connected.*

Removing External Battery Pack

Before removing the external battery pack. turn off the computer or *confirm that the standard batter?, pack has power remaining. If the standard battery pack has no power remtrining, connect the computer to* ***AC*** *power; otherwise the computer will be shut down and data may be lost.*

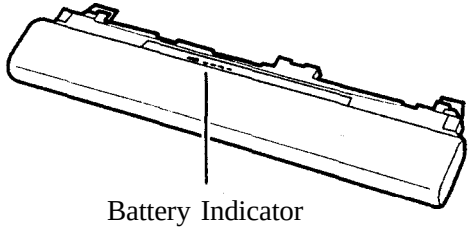
Remove the optional battery by pressing the buttons on each end of the battery and sliding the battery off the computer.



Close the cover ***of*** *the external battery port after the external* ***batter-y pack is removed.***

Checking the Battery Level

You can check the battery level of the external battery pack (in the same way as the standard battery pack) with the battery indicator. Press the button on the right of the indicator. The status of the indicator is the same as that of the standard battery. See page 3-2.



Battery Indicator

Charging External Battery Pack

You can charge the external battery pack by connecting AC power to the computer with the external battery connected.

To charge most effectively, the standard and external battery pack will be charged as follows:

1. Charge standard battery pack to about 80%.
2. Charge external battery pack to about 80%.
3. Charge standard battery pack remaining about 20%.
4. Charge external battery pack remaining about 20%.

When the computer is turned off or in the suspend-to-disk mode, it will take about 5 hours and 30 minutes to charge both the standard and external battery packs from empty to full. When the computer is turned on, it will take about 7 hours and 30 minutes. (The charging time depends on the power you are consuming.)

Initializing External Battery Pack

The procedure for initializing an external battery pack is the same as that of the standard battery. But, you cannot initialize the external battery pack only. If you begin the initializing process, both standard and external battery packs will be initialized.

Power Management

Power management saves electricity and extends battery life by controlling power supply to built-in devices. You can set the power management properties in the Setup Utility or in Windows 98. Your computer is controlled by the power management settings in which the time set is shorter.

Note that the power management may not seem to function in the following conditions:

- *When you are using an application program that accesses the hard disk periodical!*
- *When the IR monitor is available (refer to 'Chapter 5)*
- *When Windows CD Auto Play is functioning*

Stopping Power Supply to the Hard Disk

Setting in Windows 98

1. In the *Power Management Properties* dialog box, select *Power Schemes* tab.
2. Set *Turn off hard disks* to an appropriate value, and click *OK*.

Setting in the Setup Utility

In the *Power* menu, set *Power Management Function* to *Enabled* and set *Hard Disk Power Down after* to an appropriate value.

Stopping Power Supply to the Display

This procedure is also effective for an attached external monitor complying with power management.

Setting in Windows 98

1. In the *Power Management Properties* dialog box. select *Power Schemes* tab
2. Set *Turn off monitor* to an appropriate value. and click *UK*.

Setting in the Setup Utility

In the ***Power*** menu, set ***Power Management*** Function to ***Enabled*** and set *Video* ***Power Down after*** to an appropriate value.

Suspend Modes

The power management contains two types of suspend modes: suspend-to-RAM mode and suspend-to-disk mode. In the Setup Utility, you can define which suspend mode the system enters in what conditions.

- Suspend-to-RAM mode stores the current condition of the computer in RAM and stops power supply to all but a few essential components. Your system enters and resumes from the suspend-to-RAM mode per the conditions mentioned below. In the suspend-to-RAM mode, the Power indicator blinks green.
- Suspend-to-disk mode saves the current condition of the computer in an area of the hard disk, which is called "suspend-to-disk partition," and turns off the computer. Your system enters and resumes from the suspend-to-disk mode per the conditions mentioned below. In the suspend-to-disk mode, the Power indicator turns off.

Before suspending the system

Finish communications, printing, and playing music or video.

Entering the Suspend modes

Your computer enters a suspend mode in each of the following cases. You can select the suspend mode that the system will enter in *Suspend* Mode in the *Power* menu of the Setup Utility.

- You press the power switch when the item ***Power Switch Function*** is set to ***Suspend/Resume*** in the Setup Utility.
- You press **Fn+F12.**
- **The** specified time in *System Standby* of ***Power Management Properties*** dialog box has passed without any operation.
- You select ***Standby*** in the ***Shut Down Windows*** dialog box.

You can select **the suspend mode that the** system will enter in *Cover* Close in the *Power* menu of the Setup Utility.

- The screen cover is closed.

The following case functions if *Critical* ***Battery*** *Suspend* is set to *Enabled* in the *Power* menu of the Setup Utility.

- The battery level is low (always suspended to disk).

Resuming from Suspend-to-RAM mode

Your computer resumes from the suspend-to-RAM mode in each of the following cases:

- You press any key.
- The screen cover is opened.
- The built-in modem receives a call if *Resume On Modem Ring* in the *Power* menu of the Setup Utility is set to *Enabled* (the built-in modem may not be available in some countries).
- You press the power switch when the item *Power Switch Function* is set as *Suspend/Resume* in the Setup Utility.

Resuming from Suspend-to-Disk mode

Your computer resumes from the suspend-to-disk mode by pressing the power switch. The system restores the exact state as it was when entering the suspend mode. If the computer enters the suspend mode due to low battery power, however, you have to connect the computer to AC power first. Suspend to Disk is useful when you want to turn off the computer and reopen the same windows after turning it on.

- *If your battery becomes completely discharged during Suspend to RAM, you will lose unsaved data and will need to reboot your computer. Therefore, if you are planning to leave your computer suspended for long periods of time. we recommend Suspend to Disk.*
- *When rhe system enters or resumes from the suspend-to-disk mode, you can see* **some *flicker*** *on rhe display. This is nor a malfunction.*
- *If sufficient battery power does not remain, your computer will not*

resume from the suspend-to-disk mode. To resume it from the suspend-to-disk mode, connect the computer to AC power.

- *If a PC card does not work properly after your computer resumes from the Suspend to Disk, restart the computer.*

When entering or resuming from a suspend mode. be sure to observe the following precautions. Otherwise, the computer may not operate correctly after it has resumed from the suspend mode.

- *Do not turn off the computer when the system is suspended to RAM. The RAM contents will be lost.*
- *Do not operate the keyboard, glide pad or mouse while the system is entering or resuming from a suspend mode.*

Disabling Power Management

In Windows 98

1. In the *Power Management Properties* dialog box. select *Power Schemes* tab.
2. Set *System Standby, Turn off monitor* and *Turn off harddisks* to *Never*. and click *OK*.

In the Setup Utility

1. In the *Power* menu, set *Power Management Function* to *Enabled.*
2. Set *Hard Disk Power Down after, Video Power Down after* and *Auto Suspend* to *Disabled.*
3. Set *Power Management Function* to *Disabled.*

When you are using communication software or if sound or voice pauses or skips while played back, disable power management.

CHAPTER 4

Peripherals

This chapter describes how to use peripheral devices with your computer. You can connect a printer, external monitor, external keyboard. mouse, or other device to the parallel, RS-232C serial, USB or keyboard/mouse ports. To ensure proper use, be sure to read the instructions for each peripheral device before connecting it to your computer.

Using Peripherals

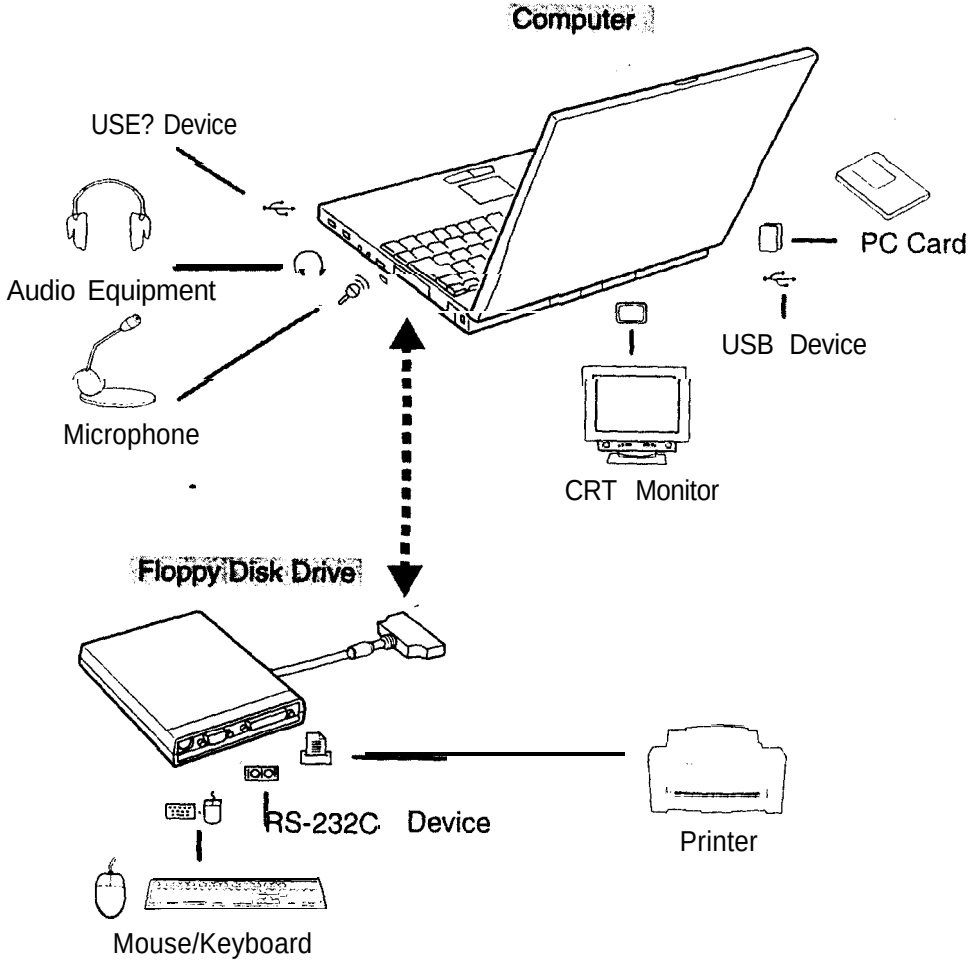
You can use the peripheral devices shown on the next page. For the details. refer to the section explaining each device, and contact your dealer.

- *Be* **sure to** *turn off the* **computer** *and the* **peripheral** *device bqfore connecting them (except when connecting* ***USB*** *devices and PC curds).*
- *Some devices have to be turned on after the computer is turned on.*
- *Some devices require that you install driver-s before use.*

Connecting Peripheral Device

1. Turn off the computer and the peripheral device (except when connecting USB devices and PC cards).
2. Connect the peripheral device to the computer. If the connector has screws. tighten them.
3. Turn on the peripheral device: then, turn on the computer.

Peripheral Connection Overview



PC Card

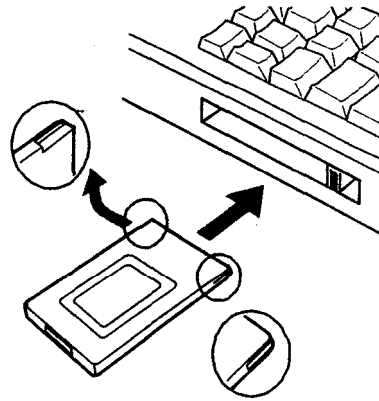
Your computer is equipped with a PC card (PCMCIA) slot, which can accommodate one Type II card. Before inserting a PC card into your computer. see its manual.

When using a PC card which needs an IRQ, disable one of the following ports: Serial, IR, LPT, or LAN. Otherwise a PC card or the computer may malfunction.

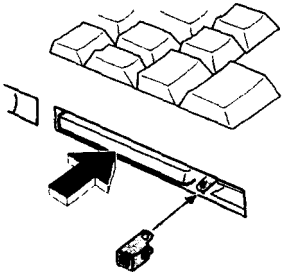
Never disable the USB port. Disabling the USB port in the Setup Utility may cause some PC cards to malfunction.

Inserting PC Card

1. Raise the PC card eject button and push it in. The protection card pops out.
2. Remove the protection card from the PC card slot.
3. Insert the card into the slot with the label face up until it locks into place. (You do not have to power down the computer to insert/remove PC cards when using Windows 98). The PC card eject button pops out. When the PC card is fully inserted, fold down the PC card eject button.



Raise the PC card eject button only when you need to push it. The eject button may get knocked off the computer if it is not pushed down. In this case, replace the button while the inserted PC card is pushed in.



When a new card is correctly inserted, the appropriate driver is automatically installed. If the driver is not installed correctly, you will hear a warning beep. In this case, install the PC card driver by following the instructions on the screen.

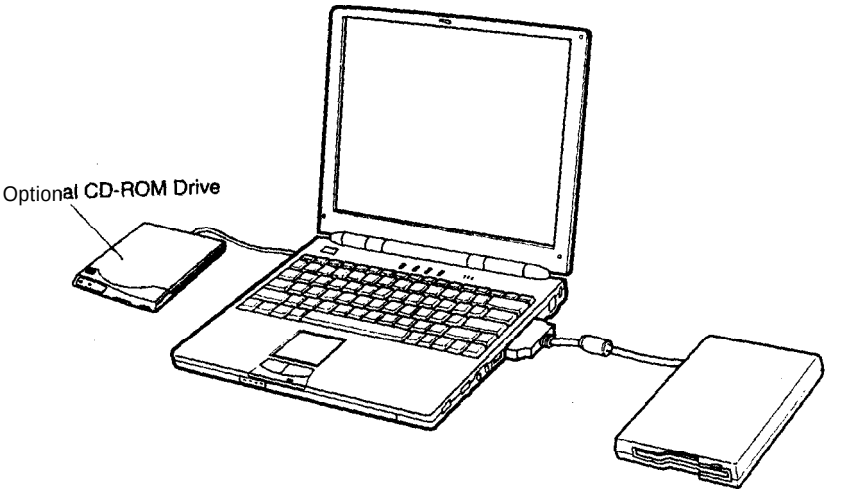
Ejecting PC Card

- *Some PC cards may become hot after long use.*
- *Be sure to use the procedure below when ejecting a PC card. Otherwise, the system may not work properly.*

1. In the *PC Card Properties* dialog box, click on the icon of the PC card you want to eject.
2. Click *Stop.*
3. When the message prompts you to eject the card, click *OK.*
4. Gently push in the PC card eject button. The PC card will be pushed out slightly.
5. Remove the card, and insert the protection card.
6. Fold down the eject button.

Connecting Optional External CD-ROM Drive

You can connect the optional external CD-ROM drive using the PC card slot.



Keyboard / Mouse

You can use a full size desktop keyboard or external mouse with your computer. A keyboard/mouse port and a RS-232C serial port are available when the external floppy disk drive is connected.

The ways of connecting a PS/2 mouse and a serial mouse are slightly different.

Never connect or disconnect the devices to the keyboard/mouse port when the computer is powered on. This may cause the computer to operate improperiv.

Using a PS/2 Mouse

You have only to connect the mouse to the keyboard/mouse port of the external floppy disk drive unit.

You cannot use the glide pad when a PS/2 mouse is connected.

Using a Serial Mouse

Connect the serial mouse to the RS-232C serial port of the external floppy disk drive unit. When starting the system, enter the Setup Utility and set the item *Serial Port:* to *Auto* or *Enabled* and *Internal Pointing Device to Disabled* in the *Advanced* menu.

You cannot use a mouse and the glide pad simultaneously.

Display

You can use an external monitor with your computer. To display images on both displays simultaneously, use more than 800x600 resolution.

- *Some monitors, which are not compatible with your computer. may not display correctly.*
- *In this section, you often see the expression "Display Properties dialog box." To open the dialog box. double-click* My Computer - Control Panel - Display.

Displaying the Screen on an External Monitor

You can display the screen on an external monitor.

You *cannot connect the optional external batter?; pack when an external monitor is connected.*

1. In the *Display Properties* dialog box. select *Settings;* then, *Advanced....*
2. Select *Monitor* tab and click *Change.. ..*
3. Click *Next.*
4. Select *Display a list of all the drivers in a specific location, so you can select the driver you want:* then, click *Next.*
5. Select *Show all hardware.*
6. Select the manufacturer and the model, and click *Next* twice.
7. Close the dialog box, following the instructions on the screen.

Switching the Display

1. In the *Display Properties* dialog box, select *Settings;* then. *Advanced ....*
2. Select *Display Device* tab.
3. Select the display and click *OK.*
4. Click *OK.*

- *Although you can switch the display with* ***Fn+F5****, use the above procedure in normal use.*
- *While playing video or animation. you mav not be able to switch the display.*
- *While using multiple displays, you cannot switch the display.*

Changing Resolution and Number of Colors

When shipped, your computer is set to the default resolution and color. The default resolution is 800 x 600 at 64k color. To change the resolution and the number of colors, perform the following:

1. In the *Display Properties* dialog box, select *Settings*.
2. Select the number of the colors in the *Colors*, and select the resolution in *Screen urea*. Refer to the table below.
3. Click *OK* twice.

Resolutions and Colors you can choose

Resolution	Number of Colors
640 x 480[1]	256 64K 16M[3]
800 x 600	256 64K 16M[3]
1024 x 768[2]	256 64K 16M[3]

[1] You cannot use screen expansion if you choose 16M colors

[2] Only 800x600 dots are displayed on the internal LCD. Move the cursor to show the remainder of the 1024x768 dots.

[3] The number of colors in this mode is made using a Dithering algorithm(on the internal LCD only).

- *You cannot switch to a display resolution and number of colors that are not available.*
- *In the Color Palette, High Color (16 bit) means 65.536 (64K) colors, and True Color (24 bit or 32 bit) means about 16,770,000 (16M) colors.*
- *If you select True Color(24 bit) in the Color Palette,*
  - ** The drawing speed of screen is decreased.*
  - **The speed of displaying video or animation is decreased.*
  - ** You cannot use multiple monitors.*
- *Note that the above resolutions are ones that you can choose when you connect a monitor with appropriate resolution.*

Using Multiple Displays

You can use multiple displays when an external display connected. See Windows Help for more information.

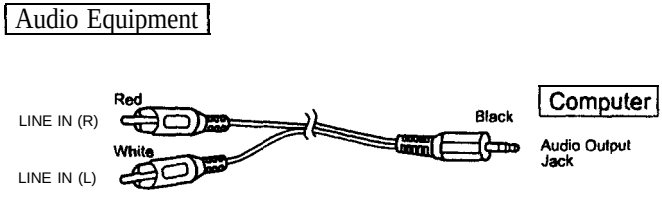
Audio System

You can output sound to speakers or headphones using an ordinary audio cable.

Connecting audio equipment

1. Turn off the computer.
2. Use the following audio cable for the connection:

   To **output the computer's audio signal to audio equipment:**



3. Turn on the computer.

- You *can adjust the volume in Windows 98 by clicking the speaker icon in the taskbar or with the volume control dial on the right side of your computer.*
- *When using the audio output jack, you cannot use the built-in speakers.*

Connecting Microphone

You can input sound using an external microphone connected to the microphone jack. When using an external microphone, you cannot use the built-in microphone.

USB Device

Your computer has a new interface called Universal Serial Bus (USB). With a USB connection, you can connect/disconnect peripherals without turning off the computer. Remove the cover of the USB port before using. To use a USB device, set the item *USB Port:* to *Enabled* in the *Advanced* menu of the Setup Utility. See also the manuals of peripheral devices supporting USB.

Disabling the USB port may cause some PC cards to malfunction.

Printer

You can connect a printer to a parallel port of the external floppy disk drive unit.

Before using a printer, read the printer manual.

Setting the Setup Utility

In the *Advanced* menu of the Setup Utility, set the *LPT Port:* to *Auto* or *Enabled*. Also set the *Mode:*. referring to your printer manual.

Installing a Printer Driver

To use a printer, you need to install a printer driver.

1. From the *Start* menu. select *Settings - Printers.*
2. Double-click *Add Printer.* The *Add Printer Wizard* appears.
3. Click *Next.*
4. Confirm *Local printer* is selected and click *Next.*
5. Select the manufacturer and the printer, and click *Next.* If you cannot find the model name of your printer, you have to install the printer driver included with your printer. See your printer manual for details.
6. Select *LPT1* and click *Next.*
7. Make sure the printer name is correct, and click *Next.*
8. Decide whether to print a test page, and click *Finish.* Before printing a test page, make sure the printer is ready.

RS-232C Device

You can use RS-232C devices. such as a modem or a terminal adapter with your computer. RS-232C port is available on the external floppy disk drive unit. To use an RS-232C device. set the item *Serial Port:* to *Auto* or *Enabled* in the *Advanced* menu of the Setup Utility. See each manual before using the device.

CHAPTER 5

Communication Functions

This chapter explains how to use infrared communications and the built-in modem.

Infrared Communication

Using the **IR** (infrared) port located on the right side of your computer, you can communicate wirelessly with infrared-equipped devices such as electronic organizers, computers or printers. To establish infrared communication, follow the instructions below. See the manual or online help of each application for details.

Positioning and Preparing the Computer and the Target Device

1. Put your computer on a flat surface.
2. Place the target device so that its IR port is in line with that of your computer.
3. Adjust the distance between the IR ports to be less than 20 inches (50 cm).

When using a Sharp electronic organizer, make sure the two IR ports are within 12 inches (30.5cm).

Setting for Infrared Communication

1. In the *Advanced* menu of the Setup Utility, make sure the *Mode* of *IR Port* is *IrDA*.
2. In the *Power* menu of the Setup Utility and the *Power Management Properties* dialog box, disable power management. Refer to *Disabling Power Management* in Chapter 3.
3. In the *Infrared Monitor* dialog box in the *Control Panel*, select *Options* and enable infrared communication.

During infrared communication:

- *Do not move the computer and the other IR device.*
- *Do not enter a suspend mode.*
- *Do not use a cellular phone or another IR device near rhe computer.*
- *Avoid strong light such as sunlight or fluorescent light.*
- *Disable the screen saver.*

IR Mode

Your computer supports two available IR modes: IrDA (Infrared Data Association) and ASK (Amplitude Shift Keying). Each application automatically selects the appropriate IR mode.

Logical Port

For some software, you may have to change the assignment of the logical port:

1. In the *SHARP IR* dialog box, select *Ports.*
2. Change the settings. and click *OK.*
3. When the message You *have changed the infrared communication port* appears, click *OK.*

Turning off the IR communication

For IrDA communication, your computer is continuously emitting infrared rays to search for other IR devices. If necessary, you can temporally disable this emission.

1. From the *Start menu,* select *Settings - Control Panel.*
2. Double-click the *SHARP IR* icon.
3. Turn off the infrared communication, and click *OK.*

Communicating with Windows 98 Personal Computer

To communicate with a personal computer installed Windows 98:

1. Right-click the file you want to send.
2. Select *Send To - Infrared Recipient.*

The tile you send will be saved in *My Received Files* in C: drive of the target personal computer.

If you cannot send the file, confirm your computer and the target computer are located correctly. Double-click *My computer - Infrared Recipient,* and check whether the name of the target computer appears in *Available infrared devices within range.* If not, relocate your computer and the target computer.

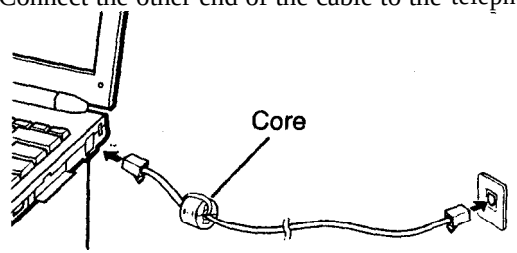
Built-in Modem (may not be available in some countries)

You can use **the built-in modem for data transfer. fax communication and voice communication.**

- *The built-in modem on your computer is designed only for regular analog telephone lines. The modem may be damaged when connected to a digital ISDN terminal or a digital PBX.*
- *If an unusual device is attached to the line you are connecting to, the modem may not function properly. Remove the device or contact the dealer of the device.*
- Before connecting to a *PBX, consult* the *PBX maintenance staff or its service company. If the electric characteristics of your PBX are different from those of a regular analog line, the modem will not function properly. If you connect the modem to a digital PBX, both the modem and the PBX may be damaged.*

Connecting the Modem to a Telephone Line

1. Turn off your computer.
2. Remove the cover of the modem jack on the right side of your computer and connect the end near the core of the included modem cable to the modem jack.
3. Connect the other end of the cable to the telephone line.



Modem Jack

4. Turn on the computer.

Connect the modem to the telephone line directly. Do not use a distributor or allotter.

Disabling Power Management

To use communication software, you may have to disable power management. See *Disabling Power Management* in Chapter 3.

Setting Communication Information

1. In the *Modems Properties* dialog box, select *Dialing Properties.*
2. Set each item. following the instructions on the screen.

Setting Communications Software

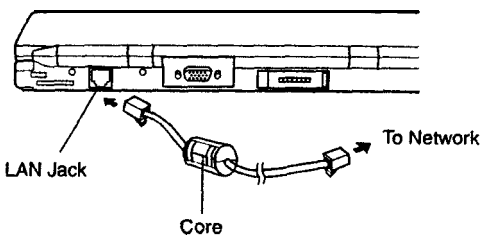
1. Within the communications software you are using, set the COM port of the built-in modem to COM3 if you have not changed the settings in the *Advanced* menu of the Setup Utility.
2. Set parameters such as modem speed (baud rate) and line type (pulse dialing or tone dialing).

- *See also the manual or online help of the software you are using.*
- *Do not enter a suspend mode while using communication software.*
- *The communication speed may vary depending on the traffic, local telecommunications infrastructure, and ISP (Internet Service Provider) infrastructure.*
- *Before commencing with fax communication, it is recommended that you exit other application programs.*
- *You cannot use the built-in modem when the computer is in MS-DOS made.*

LAN unit

Your computer is equipped with a 100 Base-TX/IO Base-T LAN interface.

1. Turn off the computer.
2. Attach the provided core to one end of your LAN cable. Insert the cable into the core and close the core until it clicks.
3. Connect the core end of the LAN cable into the LAN jack on the rear side of the computer.
4. Connect the other end of the LAN cable into the network hub.



5. Turn on the notebook.
6. When *Press <F2> to enter SETUP* appears, press F2.
7. In the Advanced menu, enable LAN.
8. Press Esc; then Enter twice. The system restarts.
9. In the Network dialog box, set fields according to your network status. Refer to your network administrator.

- *You cannot use the LAN unit when your notebook is in MS-DOS mode.*
- *You cannot use the LAN unit when you connect an optional external battery.*

If you cannot access the network,

I. From the *Start* menu, select *Settings – Control Panel.*
2. Double-click the *Network* icon.
3. In the *Network* dialog box, select *Configuration* tab.
4. Click *Realtek RTL8139 (A) Fast Ethernet NIC*; then *Properties.*
5. Click *Advanced* tab, and select *Link Speed/Duplex Mode* in *Property:* and enter an appropriate value in *Value:.*
6. Click OK twice and restart your computer.

- Password onboot
- Power Management Security
- Diskette access
- Fixed disk boot sector

When the system starts or resumes from the suspend-to-disk mode

If you have enabled *Password on hoot* in the *Security* nienu of the Setup Utility, the system requires a password when you turn on the computer. If you have enabled *Power Management Security* in the *Power* menu of the Setup Utility, the system requires a password when the system resumes from the suspend-to-disk mode.

The person who does not know the supervisor password cannot read/write a floppy disk when the item of Diskette access is *defined as* Supervisor *in the* Security *menu of the Setup Utility.*

Setting the Password

1. In the *Security* menu of the Setup Utility, select Set *Supervisor Password* or Set *User Password* and press **Enter.**
2. Type your password (up to eight characters), and press **Enter.**
3. Type the same password again, and press **Enter.**
4. When the confirmation message appears, press **Enter.**
5. Press **Esc** and select *Exit Saving Changes.*
6. Press **Enter** twice. The system restarts and asks the password you have set.

If you use the computer personally

We recommend that you set the supervisor password. You can prevent other people from using your computer by enabling *Password on hoot* in the *Security* menu of the Setup Utility.

If you share the computer with others

We recommend that a person who administers the computer sets both supervisor and **user** passwords and lets the other people know only the user password.

Deleting the Password

1. In the *Security* menu of the Setup Utility, select the password item you want to delete and press **Enter,,**

2. Type your current password, and press **Enter.**
3. Without typing any characters, press **Enter.**
4. Press **Enter** again.
5. When the confirmation message appears, press **Enter.**
6. Press **Esc** and select ***Exit Saving Changes.***
7. Press **Enter** twice. The system restarts.

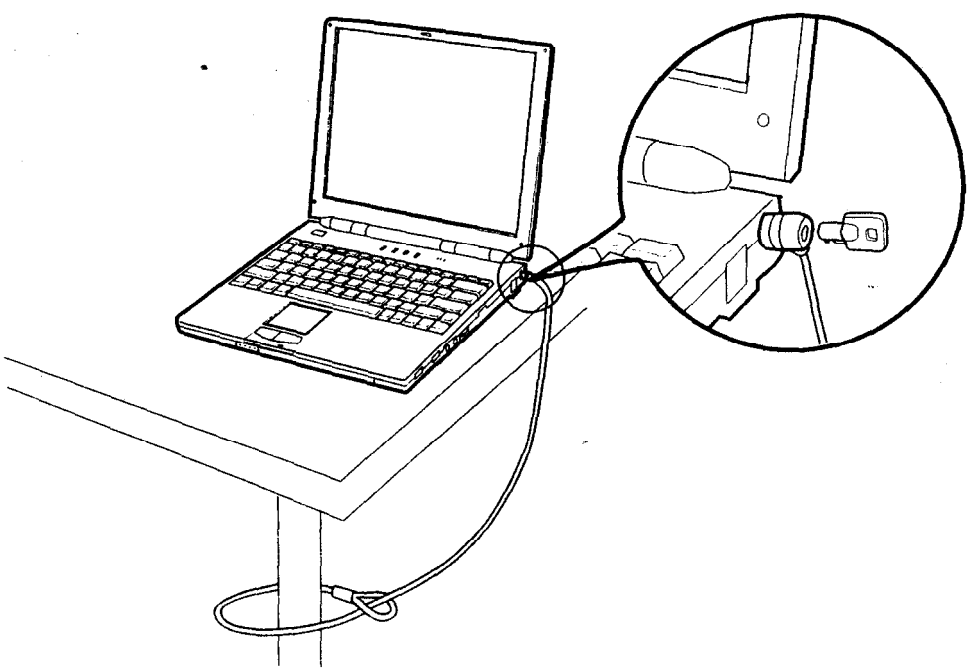
Preventing Infection of Computer Viruses

You can protect against some viruses by limiting writing to the hard disk. To limit writing to the hard disk, set the item ***Fixed disk boor sector*** to ***Write Protect*** in the *Security* menu of the Setup Utility.

- *You cannot prevent infection* ***of all types of*** *viruses with the above* ***operarion.***
- ***Even if a warning message*** *appears,* ***the system*** *may* ***not be infected*** *in* **some cases.**

Security Slot

You can prevent theft by using a security cable and the security slot on the right side of your computer.



CHAPTER 7

Setup Utility

This chapter describes how to run the Setup Utility to change settings on your computer.

Running the Setup Utility

With the Setup Utility, you can customize the system configuration information, such as time and date, port assignments, passwords, or power management settings. The information you have specified is saved in a special area called CMOS RAM, which the system reads every time you turn on the computer.

Contents of the Setup Utility

The Setup Utility consists of five menu pages, as follows:

- Main: Basic system configuration
- Advanced: Device interface configuration (I/O ports, etc.)
- Security: Password settings
- Power: Power management (battery saving settings)
- Exit: Exit the Setup Utility or return to the default values

Entering and Exiting the Setup Utility

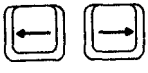
1. Turn on the computer.
2. When ***Press <F2> to enter SETUP*** appears. press F2.
3. Change the desired settings.
4. Press Esc to select the ***Exit*** menu.

5. Select one of the exit methods. and press Enter.
6. When the message *Setup Confirmation* appears, press Enter again. The system restarts.

To turn off the computer when the Setup Utility is open, slide the power switch.

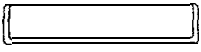
Using the Setup Utility

To navigate through the different menus, you can use the following keys:



Moves the cursor from one menu to another.

Moves the cursor from one item to another in a menu.



Space bar .

Increases the numeric value or changes an item to the next value.

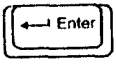
Decreases the numeric value or changes an item to the previous value.

Enters the Exit menu. When a sub-menu is open, this key closes the sub-menu.

Replaces the settings on the current menu with their default values (date and time are not changed).

Saves the settings you have changed and exits the Setup Utility.

Displays online help for the Setup Utility.



Displays sub-menu. Items with ⟩ marks contain sub-menus.

Main menu

System Time Defines the system time, using the format *hour:minute:second* (24-hour format). The **Tab** key moves the cursor, and the space bar and the "-" key change numerals.

System Date Defines the system date. The **Tab** key moves the cursor, and the space bar and the "-" key change numerals.

Diskette A Defines whether to use the floppy disk. To use it, set this item to *1.44MB,3½"*.

Hard Disk Type Specifies the hard disk type. Set to *Auto* during normal use.

Boot Sequence Specifies the sequence in which the boot program looks for operating system files.

Internal Numlock Defines whether you can input numerals through keys with blue legends on the built-in keyboard when you connect an external keyboard and lock its numeral keys.

Memory Cache Enables or disables the memory cache function that accelerates the access speed to data previously accessed.

QuickBoot Mode Enables or disables the quick boot function. When this item. is enabled, the system skips certain tests while booting.

Quiet Boot Enables or disables the quiet boot function. When this item is enabled. the system shows SHARP logo screen while booting.

BIOS version Shows BIOS version of your notebook.

EC version Shows the version of power source firmwear.

System Memory shows the size of conventional memory for starting MS-DOS.

Extended Memory Shows the size of extended memory with 1MB or larger.

Advanced menu

Serial Port Sets the RS-232C serial port, selecting the base I/O address. *Enabled* means that you can select the item yourself. ***Auto*** means that the item is automatically assigned. *Disabled* means that you cannot use the port.

IR Port Sets the infrared port, selecting the mode, the, I/O channel, the IRQ channel. and the DMA channel. *Enabled* means that'you can select the items yourself. ***Auto*** means that all the items except the mode are automatically assigned. *Disabled* means that you cannot use the port. Set to ***Auto*** during normal use.

Mode Specifies the IR mode: IrDA or ASK. Set to *IrDA* during normal use.

LPT Port Sets the printer port, selecting the mode and the base I/O address. *Enabled* means that you can select the items yourself. ***Auto*** means that the base I/O address is automatically assigned. ***Disabled*** means that you cannot use the port.

Mode Specifies the LPT port mode: ***Bi-directional, Output Only***, ***EPP*** (Enhanced Parallel Port mode) or ***ECP*** (Extended Capabilities Port **mode).**

Internal Pointing Device Enables or disables the glide pad.

Resolution Expansion Defines whether the screen is expanded when the resolution is 640x480. *Enabled* means that the screen is expanded.

USB Port Enables or disables the USB port. Always set to *Enabled*; otherwise. some PC cards may malfunction.

LAN Enables or disables the LAN port.

Plug & Play O/S Defines whether the operating system supports the plug & play function. Set to Yes during normal use.

Large Disk Access Mode Selects the operating system. Set to ***DOS*** during normal use. If you use another operating system such as UNIX. select ***Other.***

Security menu

- *See the previous chapter about setting passwords.*
- *In some password settings, you* cannot select some *items.*

Set Supervisor Password Defines the supervisor password (up to eight characters).

Set User Password Defines the user password (up to eight characters). You cannot set the user password unless you have set the supervisor password.

If you lose your password, you will be unable to access the computer or change the configuration. Make sure to select a password you will never forget, or write it down and protect it in a secure place. Otherwise. you will have to contact vour dealer for assistance.

Password on boot Defines whether the system requires passwords during the boot process. *Enabled* means that you need to input a password to continue.

Power Management Security Defines whether the system requires a password when it resumes from the suspend-to-disk mode. *Enabled* means that you need to input a password to continue.

Diskette access Specifies who can access the floppy disk drive.

Fixed disk boot sector Defines whether the boot sector of the hard disk is write-protected. When formatting the hard disk or when reinstalling software, set it to *Normal.*

Power menu

See Chapter 3 about power management and the battery.

Power Switch Function Defines the function of the power switch. If you select *On/Off*, the switch works only to turn on/off the computer. If you *select Suspend/Resume*, the system enters the mode that is specified in the item *Suspend Mode* when you press the power switch. To resume the system, press the power switch again.

Cover Close Specifies the mode the system enters when the screen cover is closed.

Power Management Function Enables or disables the items below: *Hard Disk Power Down after, Video Power Down after.* and *Auto Suspend.*

Hard Disk Power Down after Defines the duration of non-access to the hard disk after which the power supply for the hard disk stops automatically.

Video Power Down after Defines the duration of non-access to the screen after which the power supply for the screen stops automatically.

Suspend Mode Defines which mode the system enters when the system is suspended.

Auto Suspend Defines whether the system enters a suspend mode when you do not operate the computer for the specified length of time. This item does not function under Windows 98.

Critical Battery Suspend Defines whether the system enters the suspend-to-disk mode when the battery power becomes low.

Auto Backlight Control Enables or disables the self-adjustment of the display backlight. When this item is enabled. for example, backlight brightness is reduced when the system operates on battery power.

Resume On Modem Ring Defines whether the system resumes from the suspend-to-RAM mode when the modem receives a call.

The built-in modem may not be available in some countries.

Battery Level Shows the amount of battery power remaining. *Battery 1* refers to the standard battery; *Battery 2* refers to the optional external battery pack.

Exit menu

Exit Saving Changes Saves the settings you have changed and exits the Setup Utility.

Exit Discarding Changes Exits the Setup Utility without saving the settings you have changed.

Load Setup Defaults Returns the values of all items to default. To exit, select one of the above items.

Discard Changes Returns the values of all items to the values you last saved.

Save Changes Saves the settings you have changed.

Appendixes

The appendixes contain additional information on the use and care of your computer.

Maintenance and Care

This appendix provides you with information on how to maintain the computer in excellent working condition.

Cleaning the Computer

Cabinet

Apply a small amount of mild cleaning solution to a dry, lint-free cloth and wipe the cabinet with the cloth.

- *Do not use alcohol, benzene, thinner or other strong chemical agents that may damage the cabinet.*
- *Never* clean rhe *computer while it is powered on.*

Screen

The surface of the screen may become smeared and accumulate dust during use. Avoid touching the screen with your fingers when using the system. Gently wipe the surface of the screen with a soft cloth that has been dipped in a mild detergent solution and squeezed dry.

IR Port

Dust on the IR port will interfere with data transfer. Wipe the port clean with a soft, dry cloth.

Glide Pad

Wipe the glide pad with a soft. dry cloth.

Traveling with the Computer

This computer is designed for portability. For safety and convenience when traveling, please follow these guidelines.

- Before traveling. back up your data on floppy disks or other external media.
- Bring an extra copy of your backup data.
- Do not travel with an external floppy disk drive unit or optional CD-ROM drive connected.
- Do not travel with the computer powered on. This may result in loss of data and/or damage to the hard disk drive.
- Disconnect the AC adapter from the computer.
- Fully charge the standard battery pack and bring the AC adapter and the AC power cord.
- Avoid sudden shocks or extreme vibration.

Specifications

Parts		Specifications
CPU		Mobile Pentium II Processor (frequency differs by configuration)
Secondary cache		Synchronous, PipeLine Burst SRAM (256KB)
ROM		Including system BIOS and VGA BIOS
RAM	System	SDRAM 64MB (expandable to 128MB)
	Video	2.5MB
Display	Panel	Active Matrix (TFT) color LCD
	Video controller	Cyber
Keyboard		IBM compatible keyboard
Pointing device		Glide pad (touch-sensitive control pad with 2 buttons)
Drive	Hard disk	IDE interface
	Floppy disk(external)	3.5", 1.44MB/720KB
PC card slot		Type II × 1 (PCMCIA 2.1 compliant) CardBus compliant
Audio system		Monaural microphone, monaural speaker, sound system compliant with Sound Blaster Pro
I/O ports	Audio	Audio output jack, external microphone jack
	Video	External monitor port
	Others	Two USB ports, modem jack, LAN jack
	Others(on external floppy disk drive)	Parallel port, RS-232C serial port, keyboard/mouse port
Infrared		IR port (IrDA:115Kbps/4Mbps, SHARP ASK:9600bps)
Modem (may not be available in some countries)		Data: 56Kbps(receive), 33.6Kbps(send), Fax: 14.4Kbps.
Power	AC adapter	100-240V, 50-60 Hz
	Battery	Rechargeable lithium ion battery
	Battery life	Approximately 1 hour and 50 minutes (standard battery only) Approximately 6 hours (when external battery connected) *battery life may vary depending on usage
	Battery charging time (standard and optional external battery pack)	Turned off/suspended to disk about 5.5 hours Turned on: about 7.5 hours *charging time may vary depending on usage
Dimensions	Computer	10.4"' wide x 8.3" deep x 0.83"(min.)/1.02"(max.) high (263mm x 212mm x 21.0mm(min.)/26.0mm(max.))
	Floppy disk drive unit	4.65" wide x 6.81" deep x 0.94" high(118mm x 173mm x 24mm)
Operating environment	Temperature	50°F to 95°F (10°C to 35°C)
	Humidity	20% to 80% (non-condensation)

Options

External Battery Pack CE-BL03

External CD-ROM Drive CE-CD01

Memory **Module (64MB)** CE-ME64A (Ask your local service dealer for installation)

Troubleshooting

This chapter describes how to troubleshoot computer problems.

Common Problems

Problems with your computer can be caused by something as minor as an unplugged power cord or as major as a damaged hard disk drive. The information in this troubleshooting section is designed to help you find and solve minor problems. If you still have a problem after trying all the suggested remedies in this chapter, contact your dealer.

The problems that you might encounter can be divided into two basic categories: hardware and software. Hardware problems can be further divided into being of an electrical or a mechanical nature. You will know you have a hardware problem if, for example, the screen is blank, or the computer cannot recognize the disk drives.

Software problems can occur at several levels. Both your operating system and your software application programs are capable of generating errors and error messages, If you encounter a software error, try to determine if the error message is from your operating system or from an application program, and refer to the appropriate manual for possible remedies.

You can also refer to the Windows 98 manual or Windows Help program to solve the problem. To access the Help program, select Help from the Start menu. It also gives you Troubleshooting tips and an Index.

Successful troubleshooting is the result of careful observation, deductive reasoning. and an organized approach to solving the problem. If you encounter a problem, begin by performing a careful visual inspection. Check the exterior of the computer first. If no lights are displayed, check the battery charge or power outlet. the plug and power cord, and any power switches that may affect your computer. If the computer has been connected to any peripheral devices. look for loose or disconnected cables. You may also need to check the fuses and breakers in your electric box. A few common problems and suggested solutions arc presented in the examples which follow.

Trouble when Starting

Question: Why doesn't the power switch function?

- Make sure the AC power cable is correctly connected to a live wall outlet.
- If the computer is operating with batteries, batteries may be discharged. Connect the computer to a wall outlet.

Question: Why doesn't Windows start?

- Check whether the external floppy disk drive unit contains a non-system disk. Remove the floppy disk from the drive, and press any key.
- If you are attempting to boot from the external floppy disk drive, check to make sure the disk is fully inserted and seated into the drive.
- If you attempt to boot from the external floppy disk drive, check whether the ***Diskette Drive*** is set to the first in ***Boor Sequence*** in the ***Main*** menu of the Setup Utility.

Question: Why do I get a non-system disk or disk error message?

- You may have inserted a non-bootable disk in the external floppy disk drive unit (either a defective disk or one without an installed operating system). Remove the disk.
- If this message is issued when you attempt to boot from your hard disk drive, insert a bootable disk into the external floppy disk drive unit and check the status of your hard disk drive.
- Check whether the items ***Diskette A:*** and ***Hard Disk Type:*** are correctly set in the ***Main*** menu of the Setup Utility.

Question: Why do I get the message *Operating system not found?*

- If you get this message when starting from the hard disk. insert the boot up disk into the external floppy disk drive unit; then check the condition of the hard disk.
- Enter the Setup Utility and check the status of the hard disk . Check the size of the hard disk and make sure the item ***Hard Disk Type*** of *Main* menu is set to *Auto*.

Trouble with Display

See also the Display section in Chapter 4.

Question: Why is the screen blank?

- Press any key to see if any power management feature has turned off the **screen** to save power.
- See the power indicator to check whether the computer is powered.
- If you are using a standard battery pack, make sure it has a charge remaining. If you are using an external battery pack, make sure it is connected correctly and has a charge remaining.
- Make sure the LCD screen is selected as the display by pressing **Fn+F5**.
- Check the brightness controls for your display by pressing **Fn+F7**.
- Check whether the back light is on by pressing **Fn+F11**.
- If you still have the problem after trying the above, press the power switch for more than six seconds to turn off the system. Five seconds later, turn the computer on.
- If you cannot power off the system with above procedure, slide the reset switch on the bottom of your computer and turn off the system (refer to page 2-3). Wait five seconds and turn the computer back on.

Question: Why does the external monitor display nothing?

- Confirm the monitor is turned on.
- Confirm the monitor is connected correctly.
- Make sure an external monitor is selected as the display by pressing **Fn+F5**.

Question: Why is the image on an external monitor display distorted?

- Confirm the monitor is connected correctly.
- Make sure the CRT is not near any electric devices having strong magnetic fields such as a TV set or radio.
- Do not share an outlet with a TV set or radio.
- Make sure the value of the Screen area in the *Display Properties* is lower than the resolution of the CRT monitor.

Trouble with Hard Disk

Question: Why can't I read or write data to/from the hard disk?

- Confirm the drive and file names are correct.
- Confirm the hard disk has sufficient free space.
- The hard disk in your computer is formatted with FAT32. You cannot read or write data formatted in other operating systems, which are not FAT 32 compatible. Applications that are not compliant with FAT32 may not work properly.
- If you cannot re-install Windows 98 correctly, check whether the item *Fixed disk boot sector:* in the *Security* menu of the Setup Utility is *Normal*.

Trouble with Floppy Disks

Question: Why can't I use a floppy disk?

- Confirm the external floppy disk drive unit is correctly connected.
- Confirm the floppy disk is inserted correctly.
- The floppy disk may not be formatted or could be corrupted.
- If you cannot write to a floppy disk. the disk may be write-protected. Eject the disk and ensure that the write-protect tab covers the detection hole.
- If you cannot write to a floppy disk, the disk may be full. Use another disk.
- Confirm the item *Diskette A:* is *1.44MB, 3 ½* in the *Main* menu of the Setup Utility.
- Check whether the supervisor has set a password prohibiting access to the floppy disk drive in the *Security* menu of the Setup Utility.

Trouble with Keyboard/Glide Pad

Question: Why doesn't the keyboard or the glide pad function?

- Perform a software reset by pressing **Ctrl+Alt+Delete**.
- If you cannot perform a software reset, press the power switch for more than six seconds to turn off the system. Five seconds later. turn the computer on.

- If you still cannot turn off the system with the power switch. slide the reset switch on the bottom of your computer to turn off the system(refer to page 2-3). Five seconds later, turn on the computer by sliding the power switch.

Question: Why doesn't the glide pad function correctly?

- Confirm the surface of the glide pad is completely dry and free from dirt and grease.
- Confirm the item *Internal Pointing Device* in the *Advanced* menu of the Setup Utility is enabled.

Trouble with Peripherals

Question: Why don't expansion or peripheral devices function?

- Confirm they are correctly connected to your computer or the external floppy disk drive.
- Confirm the external floppy disk drive is connected correctly to the computer if peripheral devices are connected to the external floppy disk drive.
- Confirm drivers necessary for operating ports on the devices are installed.
- There may not be a free IRQ (Interrupt). Free up an IRQ from a built-in device.

Question: Why can't I print?

- Make sure the printer is turned on.
- Check whether the external floppy disk drive and the printer are connected correctly.
- Check whether the printer has enough paper.
- Check whether the printer driver is installed.
- Make sure *LPT Port* in the *Advanced* menu of the Setup Utility is set correctly.
- From the *Start* menu, select *Settings - Printers* to confirm your printer is installed here. If not, click *Add Printer* to install your printer.
- See also the Windows Help.

Question: Why doesn't the device connected to the RS-232C serial port function?

- Confirm the device is correctly connected to the external floppy disk drive with an appropriate cable.

- Confirm the external floppy disk drive unit is connected correctly.
- Confirm the application program is compliant with the RS-232C standard interface.
- Confirm the COM 1 port is not disabled using the following procedure.
  1. In the *System Properties* dialog box, select *Device Manager*.
  2. Double-click *Ports(COM&LPT)*; then, *Communications Port (COM1)*.
  3. Make sure the item *Disable in this hardware profile* is unchecked.
- Confirm the COM 1 port is not used by another applications.
- Confirm the item *Serial Port* is set appropriately in the *Advanced* menu of the Setup Utility.

Trouble with Communication

Question: Why can't I communicate through the built-in IR port?

- Confirm the IR port of your computer is lined up with the IR port of the other device. These ports should be no more than 20 inches (50 cm) apart without any obstacles.
- Confirm that IR communication is not turned off in the *Sharp IR* dialog box.
- Confirm the item *Mode* of *IR Port* is set to *IrDA* in the *Advanced* menu of the Setup Utility.
- Turn off power management both in the Windows and the Setup Utility.
- Do not use the IR port under intense fluorescent light or near cellular phones.

Question: Why can't I communicate through the built-in modem? (The built-in modem may not be available in some countries)

- Confirm the item *Modem* is set to *Enabled or Auto* in the *Advanced* menu of the Setup Utility.
- Confirm the telephone line is properly connected to the modem jack.
- Confirm the dial settings of Windows 98 or communication software are matched with the telephone line (Example: To access an outside line, first dial "7" for local. "1" for long distance).
- Confirm the network configuration is appropriate.
- Confirm the user name or password is correct.
- Confirm the COM port in the communication softwate is set appropriately.

- Turn off the power management both in the Windows and the Setup Utility.

Question: Why can't I access the network?

- Confirm the item *LAN* is set to ***Enabled*** in the ***Advanced*** menu of the Setup Utility.
- Confirm the cable is properly connected to the LAN jack and the network hub.
- Confirm the network configuration is appropriate.
- Confirm the user name or password is correct.

Other Troubles

Question: Why is the date and/or time incorrect?

- Correct the date and time using the ***Date/Time*** icon in the Windows Control Panel or the ***Main*** menu of the Setup Utility.

Question: Why can't I produce sound?

- Check the volume control on the right side of your computer.
- Click the speaker symbol on the taskbar and check the Windows volume control.

Question: Why can't I use a hardware device?

- Make sure the hardware device is not crossed out with an X mark using the following procedure.
  1. In the ***System Properties*** dialog box, select *Device Manager*.
  2. Select the device you cannot use.
  3. Click ***Properties,*** and uncheck ***Disable in this hardware profile.***

Index

A

AC adapter, 2-2
audio, 4-9

B

backing up data, 2-9
battery pack
  changing, 3-4
  charging, 3-3;3-7
  checking the battery level, 3-2; 3-6
  initializing, 3-3; 3-7
  low battery indication, 3-2
  optional external battery pack, 3-5
  standard battery, 3-I

C

computer viruses, 6-4
connecting
  keyboard / mouse, 4-6
  printer, 4- IO

D

display
  external monitor, 4-7
  resolution and number of colors, 4-8
  switching, 4-7

E

external battery pack
  connecting, 3-5
  removing, 3-6
external floppy disk drive unit
  connecting, 2-7
  removing, 2-8

F

floppy disk
  formatting, 2-9
  handling, 2-8
  inserting and removing, 2-8

G

glide pad. 2-4
  changing the configuration. 2-5
  using, 2-4

I

indicator
  battery power, 2-I
  power, 2-I
infrared communication, S-I
  communicating in Windows 98, 5-2
  positioning and preparing. S-I
  setting. 5-I

K

keyboard. 2-6
  system function keys. 2-6

L

LAN unit. 5-S
logical port, 5-2

M

microphone. 4-9
modem, 5-3

0

optional external CD-ROM drive, 4-5

P

password
  deleting, 6-2
  setting, 6-2
PC card
  ejecting, 4-4

inserting. 4-3
power indicators. 7-I
power management
disabling, 3-I I
stopping power supply to the display. 3-8
stopping power supply to the hard disk. 3-8
power source. 2-I
power switch. 2-3
properties dialog box. 1-3

R

reset switch. 2-3
resetting. 2-3
RS-232C device. 4-10

S

security slot. 6-4
setting up Windows 98. 1-3
Setup Utility
Advanced menu. 7-4
entering and exiting, 7-I
Exit menu. 7-7
Main menu, 7-3
Power menu. 7-6
running, 7-I
Security menu, 7-S
using, 7-2
shutting down the system. I-4
supervisor password. 6-I
suspend modes. 3-9
entering, 3-9
Suspend-to-disk mode. 3-9
resuming from. 3-10
Suspend-to-RAM mode, 3-9
resuming from, 3-10

T

turning power on. I-I

U

USB device. 4-9
user password. h-I

W

Warm Boot. 2-3
Windows Logo Keys. 2-6